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## **CLAIMS**

- 1. A method comprising:
   placing a predetermined solder pattern onto a pad provided on a substrate; and
   heating said predetermined solder pattern, wherein a visual appearance of said heated
   predetermined solder pattern being indicative of whether said solder is lead-free.
  - 2. The method of claim 1, wherein said substrate comprises a printed circuit board.
  - 3. The method of claim 1, wherein placing said predetermined solder pattern comprises passing solder through at least one stencil aperture and onto said pad.
  - 4. The method of claim 1, wherein said predetermined solder pattern comprises at least one symbol.
- 5. The method of claim 1, wherein placing said predetermined solder pattern comprises placing solder at one end of an indicator strip.
  - 6. The method of claim 1, further comprising examining said heated predetermined solder pattern to determine if said solder is lead-free.
    - 7. The method of claim 6, wherein examining said heated predetermined solder pattern comprises

- visually identifying whether said predetermined solder pattern after heating is in substantially a same
- 3 pattern as said predetermined solder pattern before heating.
- 8. The method of claim 6, wherein examining said heated predetermined solder pattern comprises determining whether an amount of reflow is greater than a predetermined amount.
  - 9. A method comprising:

providing a pad on a substrate;

placing solder on said pad; and

heating said solder so as to create reflow, a visual appearance of said heated solder being indicative of whether said solder is lead-free.

- 10. The method of claim 9, wherein said substrate comprises a printed circuit board.
- 1 11. The method of claim 9, wherein placing said solder on said pad comprises passing said solder
  2 through at least one stencil aperture and onto said pad.
- 1 12. The method of claim 11, wherein said solder is placed onto said pad in a predetermined pattern.

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- 13. The method of claim 12, wherein said predetermined pattern comprises at least one symbol.
- 14. The method of claim 9, further comprising identifying whether said solder is lead-free based on an amount of reflow of said heated solder.
  - 15. The method of claim 14, wherein identifying whether said solder is lead-free comprises visually identifying whether said solder after reflow is in substantially the same predetermined pattern as before reflow.
  - 16. The method of claim 14, wherein identifying said solder as lead-free comprises determining whether an amount of reflow is greater than a predetermined amount.
  - 17. The method of claim 16, wherein said determining is based on a distance of reflow along said pad.
- 1 18. The method of claim 9, wherein placing said solder on said pad comprises placing solder at one end of an indicator strip.

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- 19. A method of identifying whether a printed circuit board is lead-free, said method
   comprising:
- receiving said printed circuit board having a heated solder pattern formed thereon; and
  identifying whether solder on said printed circuit board is lead-free based on whether said
  heated solder pattern is substantially similar to a predetermined solder pattern.
- 20. The method of claim 19, wherein said predetermined solder pattern comprises at least one of a symbol and a character.
  - 21. The method of claim 19, wherein said solder on said printed circuit board is determined to be lead-free if said heated solder pattern is substantially similar to said predetermined solder pattern.
  - 22. The method of claim 19, wherein said solder on said printed circuit board is determined to not be lead-free if said heated solder pattern substantially differs from said predetermined solder pattern.
- 23. A method of identifying whether a printed circuit board is lead-free, said method comprising:
- receiving said printed circuit board having a heated solder pattern formed thereon; and

  identifying whether solder on said printed circuit board is lead-free based on a distance that

  said solder reflows.
- 24. The method of claim 23, wherein said identifying comprising comparing a distance that

- said solder reflows with at least one indicator provided on said printed circuit board.
- 25. The method of claim 24, wherein said solder on said printed circuit board is determined to
- be lead-free if said solder has not reflowed further than said at least one indicator.
- 26. The method of claim 24, wherein said solder on said printed circuit board is determined to not be lead-free if said solder has reflowed further than said at least one indicator.
- 27. A printed circuit board comprising:
  - a substrate having a plurality of first pads; and
- a second pad formed on said substrate; and
  - a identifying solder pattern formed on said second pad, wherein said identifying solder pattern visually indicates whether solder used to form said identifying solder pattern is lead-free.
- 28. The printed circuit board of claim 27, wherein said identifying solder pattern comprises a symbol after reflow of said solder.
- 29. The printed circuit board of claim 27, wherein said identifying solder pattern comprises a non-symbol created by reflow of solder from a previous symbol.
- 30. The printed circuit board of claim 27, wherein said substrate comprises a printed circuit board.